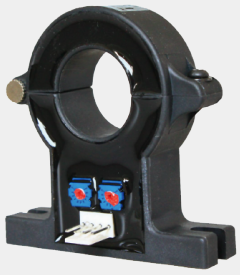
DCbox HALL AC SENSOR ATM-040

- Efficient, beneficial, and low cost.
- Measurement frequency range: 20Hz~20KHz, low power consumption +35+lomA.
- Measurement input without loss; Strong anti-interference ability.
- Lightweight structure for easy installation. Opening size φ40.5mm.
- No low-temperature drift, strong current overload capacity.
- ATM-O40 is a current comparator made using the Hall effect principle, suitable for measuring alternating current.
- Open structure design, convenient for continuous electrical installation, with screw fixation design at the opening and closing parts, safe and firm to prevent detachment.



SPECIFICATION

- ♦ Output signal: 4-20mAdc, Corresponding input current range In
- ♦ Precision: <±1.0% F.S. (@ 25℃)
- ♦ Working power supply: DC24V(±5%)
- ♦ Measurement frequency range: 20Hz~20KHz
- ♦ Insulation and withstand voltage: 5KV effective value/ 50Hz/ 1 min (between input and output circuits)
- ♦ Zero offset: <4±0.1mA
- ♦ Temperature drift: ±0.005mA/℃
- ♦ Linearity: <±1% F.S; @Ip=0-±Ipn
- ♦ Reaction time: ≦200ms
- ♦ Working temperature: -40℃~+85℃
- ♦ Storage temperature: -40℃~+125℃
- ♦ Current consumption: <25mA
- ♦ Load resistance: >10KΩ
- ♦ Weight: 300g(round)
- ♦ Shell material: Flame retardant PBT material, grade: UL94-V0

Model	Primary side rated current	Maximum measuring range	Opening size
ATM-O40-200	200A	400A	Φ 40.5
ATM-O40-500	500A	1000A	Φ 40.5
ATM-O40-800	800A	1600A	Φ 40.5
ATM-O40-1000	1000A	2000A	Φ 40.5
ATM-O40-2000	2000A	3000A	Φ 40.5

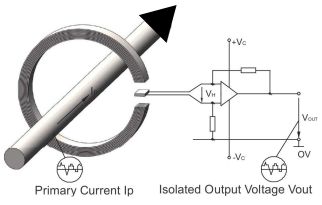
Unit: mm

ORDER INFORMATION

ATM- Code1 40 - Code2 - Code3

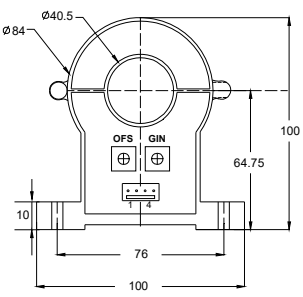
Code1	Type	Code2	Measure Range	Code2	Measure Range	Code3	Output Signal
O	Round	200	AC0~200A	800	AC0~800A	A	4~20mAdc (Working Power: 24Vdc)
		500	AC0~500A	1000	AC0~1000A		
				2000	AC0~2000A		

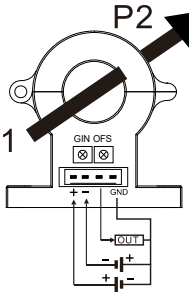
WORKING PRINCIPLE



The magnetic flux generated by the primary current IP is concentrated in the magnetic flux, detection at the air gap using a Hall comparator.
The output of the Hall device is processed at the sensor output end can accurately reflect the current changes on the primary side.

DIMENSION





Current direction: P1 → P2
OFS: Zero point adjustment
GIN: Full scale adjustment
+: Positive power input terminal
-: Negative power input terminal
Output: Signal output terminal
GND: power ground